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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 14:56:20 ON 11 MAR 2005

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:56:29 ON 11 MAR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 9 MAR 2005 HIGHEST RN 844817-50-1
DICTIONARY FILE UPDATES: 9 MAR 2005 HIGHEST RN 844817-50-1

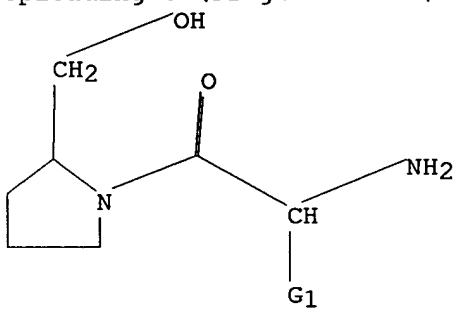
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

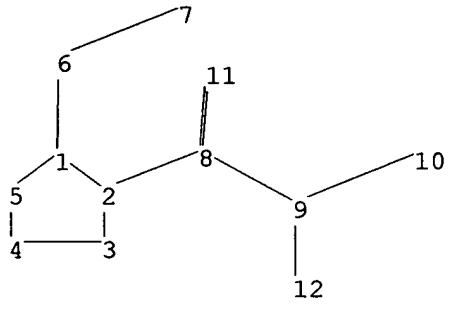
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\10805624o.str





chain nodes :
6 7 8 9 10 11 12
ring nodes :
1 2 3 4 5
chain bonds :
1-6 2-8 6-7 8-9 8-11 9-10 9-12
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-2 2-3 2-8 8-11 9-10 9-12

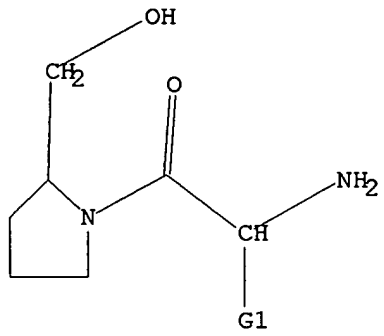
exact bonds :
1-5 1-6 3-4 4-5 6-7 8-9
isolated ring systems :
containing 1 :

G1:C,H,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



G1 C,H,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 14:56:42 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 17596 TO ITERATE

5.7% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 343979 TO 359861
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 14:56:45 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 352611 TO ITERATE

95.0% PROCESSED 334980 ITERATIONS 15 ANSWERS

100.0% PROCESSED 352611 ITERATIONS 15 ANSWERS
SEARCH TIME: 00.00.26

L3 15 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	161.33	161.54

FILE 'CAPLUS' ENTERED AT 14:57:15 ON 11 MAR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

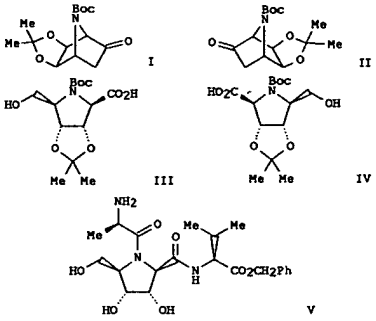
FILE COVERS 1907 - 11 Mar 2005 VOL 142 ISS 12
FILE LAST UPDATED: 10 Mar 2005 (20050310/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3
L4 15 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:435765 CAPLUS
DOCUMENT NUMBER: 141:140758
TITLE: Synthesis of D- and L-2,3-trans-3,4-cis-4,5-trans-3,4-Dihydroxy-5-hydroxymethylproline and Tripeptides Containing Them
AUTHOR(S): Moreno-Vargas, Antonio J.; Robina, Inmaculada; Petricci, Elena; Vogel, Pierre
CORPORATE SOURCE: Laboratoire de Glycochimie et de Synthese Asymetrique, Swiss Federal Institute of Technology (EPFL), Lausanne-Dorigny, CH-1015, Switz.
SOURCE: Journal of Organic Chemistry (2004), 69(13), 4487-4491
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:140758
GI

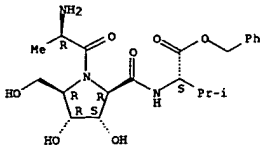


AB Enantiomerically pure (-)- and (+)-7-(tert-butoxycarbonyl)-5,6-exo-isopropylidenedioxy-7-azabicyclo[2.2.1]heptan-2-ones, I and II, resp., were prepared I and II were converted into D- and L-2,3-trans-3,4-cis-4,5-trans-N-(tert-butoxycarbonyl)-5-hydroxymethyl-3,4-isopropylidenedioxyprolines, III and IV, resp. Applying the Boc and Fmoc strategies of peptide synthesis, these compds. were used to construct two tripeptides. For example, III was incorporated into peptide synthesis to give tripeptide V.

IT **726192-28-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(asym. preparation of (dihydroxy)hydroxymethylproline and its incorporation into tripeptides)

RN 726192-28-5 CAPLUS
CN L-Valine, D-alanyl-(3S,4R,5R)-3,4-dihydroxy-5-(hydroxymethyl)-D-prolyl-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

L4 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:334930 CAPLUS
DOCUMENT NUMBER: 138:331666
TITLE: Method for re-sensitizing vancomycin resistant bacteria using agents which selectively cleave a cell wall depsipeptide
INVENTOR(S): Chiosis, Gabriela; Boneca, Ivo G.; Still, W. Clark
PATENT ASSIGNEE(S): The Trustees of Columbia University in the City of New York, USA
SOURCE: PCT Int. Appl., 105 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003035098	A1	20030501	WO 2002-US26975	20020823
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003125372	A1	20030703	US 2001-938746	20010823
US 6734165	B2	20040511		
EP 1427435	A1	20040616	EP 2002-768692	20020823
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
US 2004180814	A1	20040916	US 2004-805624	20040318
PRIORITY APPLN. INFO.:			US 2001-938746 A	20010823
			WO 2002-US26975 W	20020823

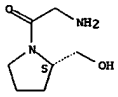
OTHER SOURCE(S): MARPAT 138:331666

AB The present invention relates a method for re-sensitizing vancomycin resistant Gram-pos. bacteria in which resistance results from the conversion of an amide bond to an ester bond in the cell wall peptide precursors of the bacteria which comprises using an antibacterial amount of vancomycin or a homolog of vancomycin and an amount of an agent effective to selectively cleave the ester bond to thereby re-sensitize vancomycin resistant bacteria.

IT **376643-20-8P**
RL: PAC (Pharmacological activity); SFN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(re-sensitizing vancomycin resistant Gram-pos. bacteria using agents which selectively cleave ester bond of D-Ala-D-Lac cell wall depsipeptide)

RN 376643-20-8 CAPLUS
CN 2-Pyrrolidinemethanol, 1-(aminoacetyl)-, (2S)- (9CI) (CA INDEX NAME)

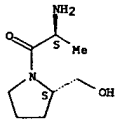
Absolute stereochemistry.



IT **518012-31-2**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(re-sensitizing vancomycin resistant Gram-pos. bacteria using agents which selectively cleave ester bond of D-Ala-D-Lac cell wall depsipeptide)

RN 518012-31-2 CAPLUS
CN 2-Pyrrolidinemethanol, 1-[(2S)-2-amino-1-oxopropyl]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

Instant App

same inventor

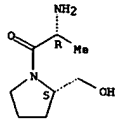
L4 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:643886 CAPLUS
DOCUMENT NUMBER: 136:2743
TITLE: Selective cleavage of D-Ala-D-Lac by small molecules: re-sensitizing resistant bacteria to vancomycin
AUTHOR(S): Chiosis, Gabriela; Boneca, Ivo G.
CORPORATE SOURCE: Department of Chemistry, Columbia University, New York, NY, 10027, USA
SOURCE: Science (Washington, DC, United States) (2001), 293(5534), 1484-1487
CODEN: SCIEAS; ISSN: 0036-8075
PUBLISHER: American Association for the Advancement of Science
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Pathogenic enterococci are becoming resistant to currently available antibiotics, including vancomycin, the drug of last resort for Gram-pos. infections. Enterococci pose a significant public health threat, not least because of the risk of transferring vancomycin resistance to the ubiquitous Staphylococcus aureus. Vancomycin resistance is manifested by cell wall peptidoglycan precursors with altered termini that cannot bind the antibiotic. Small mols. with well-oriented nucleophile-electrophile assembly and complementary chirality to the peptidoglycan termini were identified as catalytic and selective cleavers of the peptidoglycan precursor depsipeptide. These mols. were tested in combination with vancomycin and were found to re-sensitize vancomycin-resistant bacteria to the antibiotic.

IT **376643-19-5 376643-20-8**
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(selective cleavage of D-Ala-D-Lac by small mols.: re-sensitizing resistant bacteria to vancomycin)

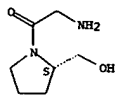
RN 376643-19-5 CAPLUS
CN 2-Pyrrolidinemethanol, 1-[(2R)-2-amino-1-oxopropyl]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 376643-20-8 CAPLUS
CN 2-Pyrrolidinemethanol, 1-(aminoacetyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000:539139 CAPLUS
DOCUMENT NUMBER: 133:277734
TITLE: The degradation of glycoproteins with lithium borohydride: isolation and analysis of O-glycopeptides with reduced C-terminal amino acid residue
AUTHOR(S): Arbatsky, N. P.; Likhosherstov, L. M.; Serebryakova, M. V.; Brusov, O. S.; Shibaev, V. N.; Derevitskaya, V. A.; Kochetkov, N. K.
CORPORATE SOURCE: Zelinskii Institute of Organic Chemistry, Russian Academy of Sciences, Moscow, 117334, Russia
SOURCE: Russian Journal of Bioorganic Chemistry (Translation of Bioorganicheskaya Khimiya) (2000), 26(1), 45-53
CODEN: RJBCET; ISSN: 1068-1620
PUBLISHER: MAIK Nauka/Interperiodica
DOCUMENT TYPE: Journal
LANGUAGE: English

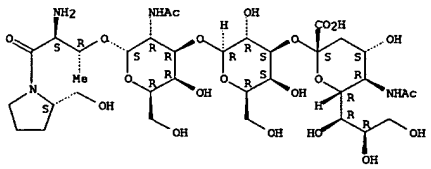
AB By the example of fetuin and a blood-group-specific mucin from porcine stomach, we showed that, under conditions of reductive degradation of glycoproteins with LiBH4-LiOH in 70% aqueous tert-Bu alc., the reduction and cleavage of amide bonds occur much faster than the simultaneous β-elimination of carbohydrate chains O-linked with Ser and Thr residues of the peptide chain. The major degradation products containing the O-linked glycans are the O-glycosylated derivs. of 2-aminopropane-1,3-diol and 2-aminobutane-1,3-diol (the products of reduction of glycosylated Ser and Thr) and the glycopeptides containing 2-4 amino acid residues with reduced C-terminal amino acid. Seventeen homogeneous O-glycopeptides were isolated from the fetuin degradation products by ion-exchange and reversed-phase HPLC. Their structures were determined by MALDI-TOF mass spectrometry and by analyses for amino acids, amino alcs., and carbohydrates. The application of the reaction for characterization of O-glycans and localization of O-glycosylation sites in O- and N,O-glycoproteins is discussed.

IT **299197-67-4**
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(structure of fetuin degradation products obtained by reductive degradation with LiBH4-LiOH in aqueous tert-Bu alc.)

RN 299197-67-4 CAPLUS
CN 2-Pyrrolidinemethanol, 1-[(2S,3R)-3-[[O-(N-acetyl-α-neuraminosyl)-(2→3)-O-β-D-galactopyranosyl-(1→3)-2-(acetylamino)-2-deoxy-α-D-galactopyranosyl]oxy]-2-amino-1-oxobutyl]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1997:640667 CAPLUS
DOCUMENT NUMBER: 127:318974
TITLE: Preparation of 7-heterocyclylpyrrolo[2,3-d]pyrimidines and analogs as protein tyrosine kinase pp60c-src inhibitors
INVENTOR(S): Altmann, Eva
PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Altmann, Eva
SOURCE: PCT Int. Appl., 66 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9734895	A1	19970925	WO 1997-EP1095	19970305
W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2249739	AA	19970925	CA 1997-2249739	19970305
AU 9721534	A1	19971010	AU 1997-21534	19970305
AU 716383	B2	20000224		
EP 888353	A1	19990107	EP 1997-914189	19970305
EP 888353	B1	20030709		
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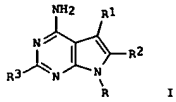
CN 1216544	A	19990512	CN 1997-193839	19970305
CN 1079796	B	20020227		
BR 9709443	A	19990810	BR 1997-9443	19970305
NZ 331804	A	20000428	NZ 1997-331804	19970305
JP 2000506537	T2	20000530	JP 1997-533081	19970305
AT 244719	E	20030715	AT 1997-914189	19970305
PT 888353	T	20031128	PT 1997-914189	19970305
ES 2203793	T3	20040416	ES 1997-914189	19970305
US 6051577	A	20000418	US 1998-142548	19980910
NO 9804199	A	19981105	NO 1998-4199	19980911
NO 313239	B1	20020902		

PRIORITY APPLN. INFO.: CH 1996-694 A 19960315
WO 1997-EP1095 W 19970305
OTHER SOURCE(S): MARPAT 127:318974
GI



I

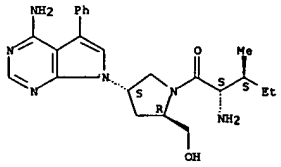
AB Title compds. [I; R = R5Z(CH2)0-4; R1 = aryl; R2,R3 = H, halo, alkyl; R5 = H, alkyl, alkanoyl, alkoxycarbonyl, etc.; Z = (un)substituted pyrrolidine-1,2- or 1,3-diyl, -piperidine-1,2-, -1,3-, or -1,4-diyl] were

L4 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
prepd. as protein tyrosine kinase pp60c-src inhibitors (no data). Thus, PhCOCH2NHAc was cyclocondensed with CH2(CN)2 and the product condensed with HC(OEt)3 and NH3 to give N-(3-cyano-4-phenyl-2-pyrrolyl)formamidine which was cyclized to give, after deprotection, I (R1 = Ph, R2 = R3 = H) (II; R = H) which was condensed with Me (2R,4R)-1-tert-butoxycarbonyl-4-tosyloxypyrrolidine-2-carboxylate to give, after deprotection, II [R = (2R,4S)-2-ethoxycarbonyl-4-pyrrolidinyl].

IT 197525-26-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 7-heterocyclylpyrrolo[2,3-d]pyrimidines and analogs as protein tyrosine kinase pp60c-src inhibitors)

RN 197525-26-1 CAPLUS
CN 2-Pyrrolidinemethanol, 1-(2-amino-3-methyl-1-oxopentyl)-4-(4-amino-5-phenyl-7H-pyrrolo[2,3-d]pyrimidin-7-yl)-, dihydrochloride, [2R-[1(2S*,3S*),2α,4β]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



●2 HCl

L4 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1991:536560 CAPLUS
DOCUMENT NUMBER: 115:136560
TITLE: Synthesis and biological evaluation of 4-purinylpyrrolidine nucleosides
AUTHOR(S): Peterson, Mark L.; Vince, Robert
CORPORATE SOURCE: Coll. Pharm., Univ. Minnesota, Minneapolis, MN, 55455, USA
SOURCE: Journal of Medicinal Chemistry (1991), 34(9), 2787-97
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

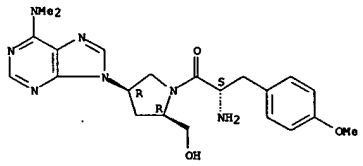
AB The synthesis of several novel carbocyclic purine nucleosides which incorporate a nitrogen in place of carbon 3 of the cyclopentyl moiety are described. These analogs are derived from the key stereochem. defined intermediate N-(tert-butoxycarbonyl)-O-[(4-methoxyphenyl)diphenylmethyl]-trans-4-hydroxy-D-prolinol (I), which was accessible in 61.1% overall yield for a five-step sequence starting from cis-4-hydroxy-D-proline. The heterocyclic bases, 6-chloropurine and 2-amino-6-chloropurine, are efficiently introduced onto the pyrrolidine ring via a Mitsunobu-type coupling procedure with Ph3P and di-Et azodicarboxylate. Standard transformations and removal of protecting groups gave the cis-adenine, hypoxanthine, 2,6-diaminopurine, and guanine D-prolinol derivs. II (X = H, Y = NH2, OH; X = NH2, Y = NH2, OH). In addition, a related sequence from trans-4-hydroxy-L-proline provided the enantiomeric L-prolinol guanine derivative The 6-(dimethylamino)purine analog, was coupled to N-(benzyloxycarbonyl)-p-methoxy-L-phenylalanine to provide, after deprotection, the novel puromycin-like analog III. The analogs II and III were evaluated for antitumor and virucidal activity. These compds. failed to appreciably inhibit the growth of P388 mouse leukemia cells in vitro at concns. up to 100 μg/mL. In addition, they did not exhibit noticeable activity against the HIV or herpes simplex virus type 1 at concns. as high as 100 μM. The adenine analog, I (X = H, Y = NH2) proved to be a substrate for adenosine deaminase and possessed an affinity for the enzyme only 50% less than that of adenosine with a Ki = 85 μM.

IT 135042-36-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, antileukemic, and virucidal activity of)

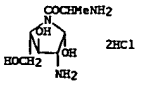
RN 135042-36-3 CAPLUS
CN 2-Pyrrolidinemethanol, 1-[2-amino-3-(4-methoxyphenyl)-1-oxopropyl]-4-[6-(dimethylamino)-9H-purin-9-yl]-, [2R-[1(S*),2α,4α]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



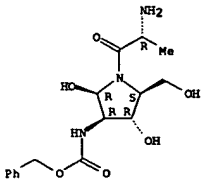
L4 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1978:152891 CAPLUS
DOCUMENT NUMBER: 88:152891
TITLE: Studies on heterosugars. Part II. Synthesis of 2,4-diamino-2,4-dideoxy-L-arabinose derivatives (prumycin derivatives)
AUTHOR(S): Hsegawa, Akira; Sakurai, Tooru; Kiso, Makoto
CORPORATE SOURCE: Dep. Agric. Chem., Gifu Univ., Gifu, Japan
SOURCE: Agricultural and Biological Chemistry (1978), 42(1), 153-8
CODEN: ABCHA6; ISSN: 0002-1369
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB 2,4-Diamino-2,4-dideoxy-L-arabinose derivs. were prepared from benzyl 2-(benzyloxycarbonyl)amino-2-deoxy-β-D-glucofuranoside by a series of known reactions. Among the compds. prepared is furanoid prumycin I.
IT **66167-01-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and catalytic hydrogenolysis of)
RN 66167-01-9 CAPLUS
CN Carbamic acid, [1-(2-amino-1-oxopropyl)-2,4-dihydroxy-5-(hydroxymethyl)-3-pyrrolidinyl]-, phenylmethyl ester, [2R-[1(R*),2α,3α,4β,5α]]- (9CI) (CA INDEX NAME)

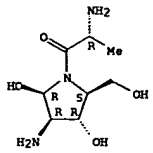
Absolute stereochemistry.



IT **66167-02-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 66167-02-0 CAPLUS
CN 2,4-Pyrrolidinediol, 3-amino-1-(2-amino-1-oxopropyl)-5-(hydroxymethyl)-, dihydrochloride, [2R-[1(R*),2α,3α,4β,5α]]- (9CI) (CA INDEX NAME)

L4 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

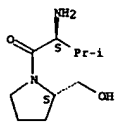
Absolute stereochemistry.



●2 HCl

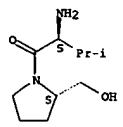
L4 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1975:459253 CAPLUS
DOCUMENT NUMBER: 83:59253
TITLE: Antibiotic actinonin. VII. Mass spectra of actinonin and related compounds
AUTHOR(S): Anderson, Nicholas H.; Devlin, John P.; Jones, Stephen; Ollis, W. David; Thorpe, John E.
CORPORATE SOURCE: Dep. Chem., Univ. Sheffield, Sheffield, UK
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1975), (9), 852-7
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB The mass spectrum of actinonin (I) was interpreted by comparison with the fragmentation of the model compds. II-V. The structure of I, except for the position of the pentyl substituent, was determined from the mass spectrum.
IT **54124-60-6**
RL: PRP (Properties)
(mass spectrum of)
RN 54124-60-6 CAPLUS
CN 2-Pyrrolidinemethanol, 1-(2-amino-3-methyl-1-oxobutyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



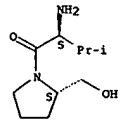
L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1975:459252 CAPLUS
DOCUMENT NUMBER: 83:59252
TITLE: Antibiotic actinonin. VI. Synthesis of structural analogs of actinonin by dicyclohexylcarbodiimide coupling reactions
AUTHOR(S): Devlin, John P.; Ollis, W. David; Thorpe, John E.; Wright, Derek E.
CORPORATE SOURCE: Dep. Chem., Univ. Sheffield, Sheffield, UK
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1975), (9), 848-51
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Coupling of amino amides with monoesters of dicarboxylic acids with dicyclohexylcarbodiimide in CH2Cl2 gave dicarbamoyl esters, which with MeOH-NH2OH gave the corresponding hydroxamic acids, analogs of actinonin. E.g., DL-valylmorpholine with HO2CCH[(CH2)4Me]CO2Et gave the ester I, which gave the hydroxamic acid II.
IT **54124-60-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(coupling reaction with dicarboxylic acid monoesters)
RN 54124-60-6 CAPLUS
CN 2-Pyrrolidinemethanol, 1-(2-amino-3-methyl-1-oxobutyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT **54124-60-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with methanolic hydroxylamine)
RN 54124-60-6 CAPLUS
CN 2-Pyrrolidinemethanol, 1-(2-amino-3-methyl-1-oxobutyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

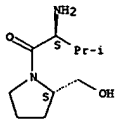
Absolute stereochemistry.



L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

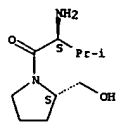
L4 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1975:459251 CAPLUS
DOCUMENT NUMBER: 83:59251
TITLE: Antibiotic actinonin. V. Synthesis of structural analogs of actinonin by the anhydride-ester method
AUTHOR(S): Devlin, John P.; Ollis, W. David; Thorpe, John E.
CORPORATE SOURCE: Dep. Chem., Univ. Sheffield, Sheffield, UK
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1975), (9), 846-8
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Succinic anhydride or its 4-pentyl derivative with amino amides gave dicarbamoyl carboxylic acids, the Me esters of which with NH2OH gave structural analogs of actinonin. E.g., succinic anhydride with alanylpyrrolidine gave the acid I. The ester II with NH2OH gave 52% of the hydroxamic acid III.
IT **54124-60-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(coupling reaction with succinic anhydrides)
RN 54124-60-6 CAPLUS
CN 2-Pyrrolidinemethanol, 1-(2-amino-3-methyl-1-oxobutyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1975:459248 CAPLUS
DOCUMENT NUMBER: 83:59248
TITLE: Antibiotic actinonin. II. Total synthesis of actinonin and structural analogs by the isomaleimide method
AUTHOR(S): Anderson, Nicholas H.; Ollis, W. David; Thorpe, John E.; Ward, A. David
CORPORATE SOURCE: Dep. Chem., Univ. Sheffield, Sheffield, UK
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1975), (9), 825-30
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Valylprolinol with the isomaleimide I gave O-benzyldidehydroactinonin (II) which on hydrogenation gave actinonin (III). Analogs IV-VI were prepared similarly from alanylpyrrolidine, valylpyrrolidine, and valylprolinol, resp.
IT **54124-60-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with isomaleimide derivative)
RN 54124-60-6 CAPLUS
CN 2-Pyrrolidinemethanol, 1-(2-amino-3-methyl-1-oxobutyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



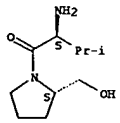
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1975:459247 CAPLUS
DOCUMENT NUMBER: 83:59247
TITLE: Antibiotic actinonin. I. Constitution of actinonin. Natural hydroxamic acid with antibiotic activity
AUTHOR(S): Gordon, James J.; Devlin, John P.; East, Anthony J.; Ollis, W. David; Sutherland, Ian O.; Wright, Derek E.; Ninet, Leon
CORPORATE SOURCE: Antibiot. Res. Stat., Med. Res. Counc., Clevedon, UK
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1975), (9), 819-25
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB The structure of actinonin (I), isolated from Streptomyces roseopallidus, was determined by degradation to its constituent residues, L-prolinol, valine, D-pentylsuccinic acid, and hydroxylamine and from spectral data.
IT **56439-51-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 56439-51-1 CAPLUS
CN 2-Pyrrolidinemethanol, 1-(2-amino-3-methyl-1-oxobutyl)-, [S-(R*,R*)]-, compd. with 2,4,6-trinitrophenol (1:1) (9CI) (CA INDEX NAME)

CM 1

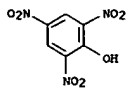
CRN 54124-60-6
CMF C10 H20 N2 O2

Absolute stereochemistry.



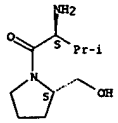
CM 2

CRN 88-89-1
CMF C6 H3 N3 O7



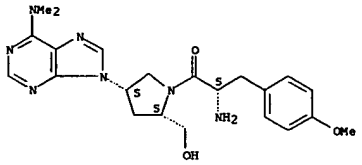
L4 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1974:535864 CAPLUS
DOCUMENT NUMBER: 81:135864
TITLE: Total synthesis of the antibiotic, actinonin
AUTHOR(S): Anderson, Nicholas H.; Ollis, W. David; Thorpe, John E.; Ward, A. David
CORPORATE SOURCE: Dep. Chem., Univ. Sheffield, Sheffield, UK
SOURCE: Journal of the Chemical Society, Chemical Communications (1974), (11), 420-1
CODEN: JCCCAT; ISSN: 0022-4936
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB A regioselective and stereoselective synthesis of actinonin (I) from condensation of pentylmaleic anhydride with PhCH2ONH2 was described.
IT 54124-60-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(addition reaction with isomaleimide)
RN 54124-60-6 CAPLUS
CN 2-Pyrrolidinemethanol, 1-(2-amino-3-methyl-1-oxobutyl)-, [S-(R*,R*)]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



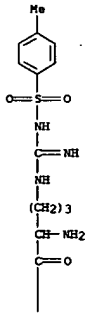
L4 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1974:108480 CAPLUS
DOCUMENT NUMBER: 80:108480
TITLE: Unconventional nucleotide analogs. XI. Synthesis of a nonsaccharidal analog of puromycin
AUTHOR(S): Kaspersen, Frans M.; Bieraugel, Hans; Pandit, Upendra K.
CORPORATE SOURCE: Org. Chem. Lab., Univ. Amsterdam, Amsterdam, Neth.
SOURCE: Heterocycles (1974), 2(1), 15-19
CODEN: HTCYAM; ISSN: 0385-5414
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB The title puromycin analog (I), of interest because of analogy to nucleo-peptide models, is prepared Thus, (-)-4-hydroxy-L-proline was converted to II which on treatment with 5-amino-4,6-dichloropyrimidine followed by ring closure [(EtO)3CH] gave III (R = Cl, R1 = tosyl). Reaction of this with Me2NH and detosylation gave III (R = NMe2, R1 = H). Coupling of this with Cbz N-protected 4-MeOC6H4CH2CH(NH2)-CO2H gave, after removal of the Cbz group, I.
IT 51950-02-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 51950-02-8 CAPLUS
CN 2-Pyrrolidinemethanol, 1-[2-amino-3-(4-methoxyphenyl)-1-oxopropyl]-4-[6-(dimethylamino)-9H-purin-9-yl]-, [2S-[1(R*),2α,4α]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1966:482599 CAPLUS
DOCUMENT NUMBER: 65:82599
ORIGINAL REFERENCE NO.: 65:15497c-d
TITLE: Partial acid hydrolysis of γ-keratose
AUTHOR(S): Asquith, R. S.; Shaw, T.
CORPORATE SOURCE: Bradford Inst. Tech., Bradford, UK
SOURCE: J. Textile Inst. Trans. (1966), 57(6), 242-53
DOCUMENT TYPE: Journal
LANGUAGE: English
AB γ-Keratose was hydrolyzed 192 hrs. in 5N HCl at 37° to obtain a hydrolyzate in which, based on amino N determination, the average peptide chain length was 2 amino acid residues. The partial hydrolyzate was fractionated by ion exchange chromatography, two dimensional paper chromatography, and/(or) high voltage paper electrophoresis. Fifteen di- and tripeptides were identified and other peptides containing up to 5 amino acid residues also were found. Cysteylcysteic acid was shown to be present.
IT 7754-78-1, p-Toluenesulfonamide, N-[[4-amino-4-[[2-(hydroxymethyl)-1-pyrrolidinyl]carbonyl]butyl]amidino]-
(preparation of)
RN 7754-78-1 CAPLUS
CN Pyrrolidine, 2-(hydroxymethyl)-1-[N5-[(p-tolylsulfonyl)amidino]-L-ornithyl]-, L- (8CI) (CA INDEX NAME)

PAGE 1-A



L4 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

PAGE 2-A